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Vishay Introduces New NTCSC0402 Series Commercial-Grade NTC SMD Thermistors

Product Benefits:

- Small 0402 SMD case
- Unique tolerance at 25 °C of $\pm 1\%$ for the ultimate temperature precision: $\pm 0.2\text{ °C}$
- Competitive prices and lead time
- Most popular characteristics for battery applications: $10\text{ k}\Omega$ with $B_{25/85} = 3435\text{ K}$
- Higher R25 available for measuring current reduction
- Green product
- RoHS compliant 100% Pb-free (no exemptions)
- UL1434-certified

Market Applications:

- Temperature sensing, protection, and compensation in industrial, telecom, and consumer electronics applications
- Typical end products include battery chargers, power supplies, office equipment, LED compensation circuits, thermoelectric modules, wearables, cell phones, fire detectors, ambient thermostats, and TCXOs

The News:

Vishay introduces the new NTCSC0402 series of commercial-grade NTC SMD thermistors with a standard $\pm 1\%$ R25 tolerance in the compact 0402 case size. Complementing the company’s existing automotive-compliant NTCSC0204 series, qualification tests for the new thermistors are compliant to high level standard programs like AEC-Q200.

A fast design utilizing these parts can be facilitated by using Vishay’s Resistance Temperature Computation tool (<https://www.vishay.com/en/thermistors/ntc-rt-calculator/>) and SPICE models (<https://www.vishay.com/en/product/29238/tab/designtools-ppg/>).

The Key Characteristics:

ELECTRICAL DATA AND ORDERING INFORMATION				
R ₂₅ (Ω)	R ₂₅ -TOL. ($\pm\%$)	B _{25/85} (K)	B _{25/85} -TOL. ($\pm\%$)	SAP MATERIAL AND ORDERING NUMBER
10 000	1	3435	1	NTCSC0402E3103FLFT
47 000	1	4050	3	NTCSC0402E3473FXHT
100 000	1	4050	3	NTCSC0402E3104FXHT



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Samples and production quantities of the NTCSC series are available now, with lead times of 10 weeks.

Useful Links

- Product page: www.vishay.com/ppg?29238
- Resistance Temperature Computation tool: <https://www.vishay.com/en/thermistors/ntc-rt-calculator/>
- SPICE models: <https://www.vishay.com/en/product/29238/tab/designtools-ppg/>

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